

FST-10 & FST-20 POWDER FEEDERS

FST

- ✓ Digitally connected via profinet
- ✓ Master / slave controlled via Horizon software
- ✓ Mass Flow Controller for carrier gasses
- ✓ Stand-alone version - option
- ✓ Volumetric version (RPM)
- ✓ Weight loss version (Gr. / min) – option
- ✓ 1.5 & 5 liter hoppers
- ✓ High pressure version – opt.
- ✓ Several options for discs / spreaders
- ✓ Three different stirrer types
- ✓ Heater blankets
- ✓ High precision and repeatable
- ✓ Low maintenance and reliable



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FST-10 & 20 POWDER FEEDER

FST

- TECHNICAL DESCRIPTION -

FST offers the FST-10 (single feeder) and FST-20 (twin feeder). The FST-20 versions can operate two feeding lines separately or simultaneously (dual feeding principle).

All FST powder feeders are also available as stand-alone units. Stand-alone feeders can be operated independent from external controller or digitally master / slave integrated via profinet with existing thermal spray or laser cladding systems. The feeding principle is based on the volumetric principle and provides continuous feeding and precise and reproducible powder feed rates. A weight loss option is available allowing for closed loop feed rate control based on material weight in grams per minute. The powder feeders can be equipped with mass flow controllers for accurate and consistent control of the carrier gases.

When integrated with FST digital series all powder feed functions are closed loop controlled by the FST Horizon operation software. Stand-alone feeders have an independent control panel for setting the required powder feed parameters. The hoppers can be equipped with special disc and spreader/suction units for process specific and stable powder feed rates for different applications. The FST-10 or FST-20 powder feeders are equipped with 1.5 or 5.0 liter hoppers and can be equipped with heating devices. The powder hoppers are designed for high pressure processes up to 11 bar (150 psi).

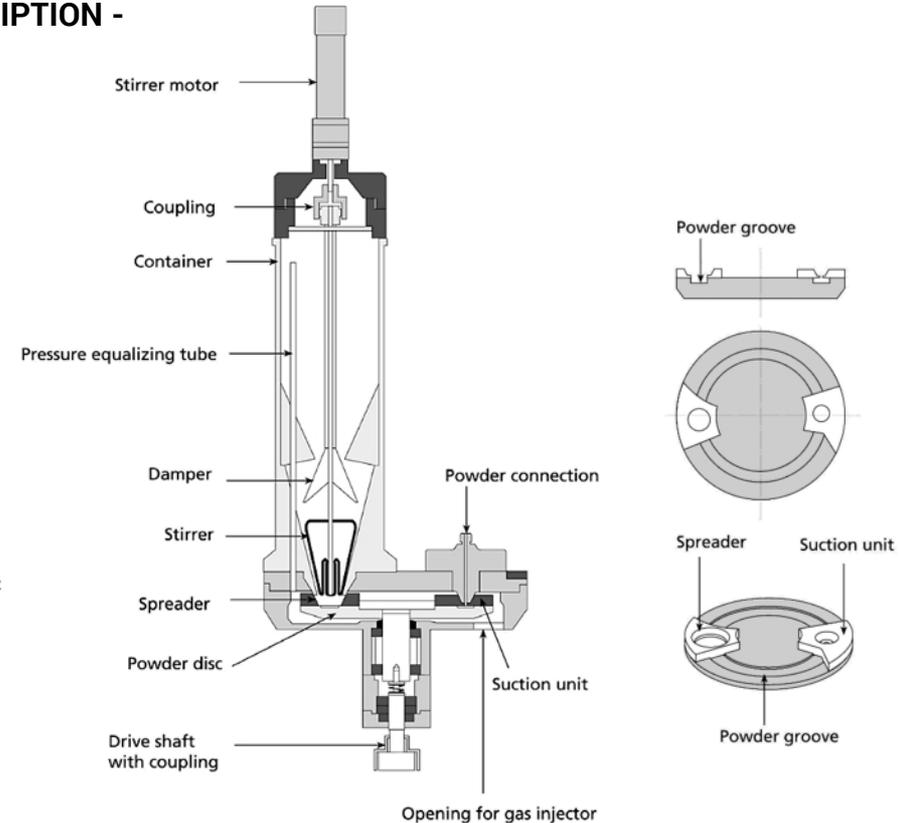


FST-20 twin powder feeder

1.5L & 5L HOPPERS

- TECHNICAL DESCRIPTION -

- RPM of feeder wheel: 0,2 to 10 in 0,1 steps (Set/actual value)
- RPM of stirrer in percent 0-100% in 1% steps (Set/actual value)
- Interface CPU with Profinet
- Color 9007/6029 (other color upon request)
- Controller: Siemens S7-300 SPS
- Motor driven hopper with stirrer with PINS
- 1.5 or optional 5 Liter powder hopper
- Standard disc groove 16 mm x 1,2 mm for a feed rate of approx. 5 to 200 g/min (other discs on request)
- AC volt cable 230V 6m long with Euro plug
- English documentation
- CE-Conformity Declaration
- Standard equipped with a 1.5 liter hopper. 5 liter hoppers, as well as heating devices, are available upon request.





LEADING IN THERMAL SPRAY TECHNOLOGY